

00862.022315



PATENT APPLICATION

7/Suppl. IIS
P. Walker
8/13/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Mitsuru HIURA

Application No.: 09/915,325

Filed: July 27, 2001

For: EXPOSURE APPARATUS AND DEVICE
MANUFACTURING METHOD USING THE
SAME

)
: Examiner: A. Dudding
)
: Group Art Unit: 2853
)
:
: July 30, 2003
)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Further to the Information Disclosure Statement filed on September 18, 2001, in compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed PTO-1449 form. Copies of the listed documents are also enclosed.

U.S. Patent No. 6,538,723 discusses controlling an oscillation frequency of a laser light source so as to keep a maximum scanning velocity of a mask and a photosensitive master and/or a maximum oscillation frequency of the laser light source.

Japanese patent document number 7-130626 discusses a scanning exposure apparatus in which a scanning velocity may be changed in scanning a master or a substrate. Also, a running approaching distance and/or an overrun distance in scanning is changed according to the scanning velocity.

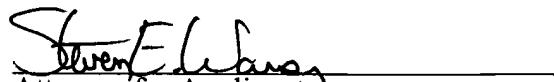
Japanese patent document number 10-223513 shows that when a transparent rate of an ND filter for reducing pulse light from a pulse light source is reset at a maximum value, a minimum exposure dose amount S_{D-min} is measured is measured at a maximum velocity of a stage. Then, when a suitable exposure dose amount S_D , for a photoresist exceeds the S_{D-min} value, a scanning velocity is changed in accordance with the exposure dose amount S_D . Also, when the dose amount S_D does not exceed the dose amount S_{D-min} , an oscillation frequency of the pulse light source is controlled in accordance with the dose amount S_D within a range in which a number of pulses exceeds a minimum integrating pulse number.

Applicant requests that the above information be considered by the Examiner and that a copy of the enclosed PTO-1449 form be initialed and returned indicating that such information has been considered.

We also enclose a check for the required fee of \$180.00 to cover the Information Disclosure Statement under 37 C.F.R. 1.97(c)(2). The Commissioner is authorized to charge Deposit Account No. 06-1205 should any other fees be deemed necessary in connection with this paper.

Applicant's undersigned attorney may be reached in our Washington D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our address given below.

Respectfully submitted,



Attorney for Applicant
Steven E. Warner
Registration No. 33,326

FITZPATRICK, CELLA, HARPER & SCINTO
30 Rockefeller Plaza
New York, New York 10112-3801
Facsimile: (212) 218-2200

SEW/eab